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Patent application 09/892,351
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To the Commissioner for Patents,

I will respond to the correspondence of 31 July 07 referring to your numbering.

To assist the examiner, visual examples of the claimed invention and of the prior art in discussion can be seen at www.acb3d.com/exam.html with the anaglyph viewer supplied.

Use a color accurate monitor, preferably a glass screen. Assessment should be by one who is not color blind.

1. Claim 1 is amended to include a citation from (0009) of the application as preferred by the examiner. "...enable an anaglyphic perception of broad spectrum contrast balance..."

You refer to 6,037,971 column 3 lines 20-25 and column 4 lines 30-38 as involving color adjusting/correcting.

However, these refer to the process of 6,037,971 Fig' 6 where a red left/Green-blue right (R/GB) anaglyph, made as per Fig 2, is monitored for underexposure and overexposure of red and a green image plane is substituted for a red one.

6,037,971 Fig' 2 results in an R/GB anaglyph image video. See Col' 5 lines 29-31 and Col 6 lines 48-50.

6,037,971 Fig' 6 operates on the anaglyph image of Fig 2. See Col' 7 lines 55-58.

Please note that:

- 6,037,971 does not adjust the color of the left and right images of the stereo pair.
- The image plane substitution does not result in anaglyphic contrast balance. It results in a one third spectrum green contrast opposed by two thirds green -blue contrasts.
My method enables the contrasts from the full spectrum to both views.
- The operation of 6,037,971 Fig'6 is applied to an R/GB anaglyph and not to the stereo pair.

6,037,971 Fig' 5 also operates on the anaglyph image of Fig 2. See Col' 7 lines 39-41.

See text for Fig 5 column 7 lines 39-48 where the output of Fig 2 (an R/GB anaglyph) is modified by adjusting its color. "The net result is to eliminate pure red or pure blue pixels..." See my reply of 11 May 07 item 8-9 page 2-3. The pixel sampling of the anaglyph in 6,037,971 Figs 5 and 6 are indiscriminate of fringe areas in anaglyph images that require pure color to represent the relative horizontal displacement between the left and right views.

Fringe areas are evidence of the color channels and are typically pure in color and thus are most likely to be altered by the claimed method of Fig 5.

They are visible without anaglyph glasses but should not be visible with anaglyph glasses.

Altering the color purity of an anaglyph image, as per fig 5, results in double imaging as pure colour is required for color channels to separate the two views.

6,037,971 refers to color planes or image planes. My application refers to them as color channels that are preserved as pure.

See my application (0203) where additional treatments to an anaglyph "...do not effect the color balance."

Please note from the above that:

- The claimed method of 6,037,971 Fig'5 is applied to an R/GB anaglyph and not to the stereo pair.
- The Fig' 5 elimination of an anaglyphs pure color is at the expense of double imaging.
- 6,037,971 does not adjust the color of the left and right images of the stereo pair as does my application where also the purity of the color channels is maintained.

DO NOT ENTER
BL 11/07/07

18.Oct 07

For examiners amendment, if required, to the specification of filter values as originally filed for application 09/892,351.

Page 9.

For the image viewed through red gel.

Red + cyan 62% ~~51%~~

Yellow + cyan 40% ~~34%~~

Green - cyan 70% ~~57%~~

Cyan - cyan 78% ~~63%~~

Blue - cyan 58% ~~46%~~

Magenta + Cyan 55% ~~47%~~

Black - black 10%

For the image viewed through green-blue gel.

Red - magenta 66% ~~36%~~ - yellow ~~36%~~

Yellow nil treatment.

Green + magenta 41% ~~35%~~

Cyan + magenta 48% ~~37%~~

Blue + yellow 52% ~~56%~~

Magenta - black 40% ~~+yellow 20%~~

Black - black 10%

Page 12.

For the image viewed through red gel.

Red + cyan 100% ~~55%~~ + Black 25%

Yellow + cyan 50% ~~20%~~

Green - cyan 53% ~~61%~~

Cyan - cyan 68%

Blue - cyan 35% ~~34%~~

Magenta + Cyan 55% ~~48%~~

Black + or - optional

For the image viewed through green-blue gel.

Red - magenta 48% ~~45%~~ - yellow ~~30%~~

Yellow nil treatment, + cyan 100 + magenta 3%

Green + magenta 35% ~~28%~~

Cyan + magenta 65% ~~70%~~

Blue + yellow 50% ~~55%~~

Magenta + black 5% ~~+yellow 20%~~

Black + or - optional

Page 13.

For the image viewed through red gel.

Red + cyan 7% ~~57%~~ - magenta ~~44%~~
- yellow ~~30%~~

Yellow + cyan 4% ~~20%~~ + magenta ~~3%~~

Green - cyan 95% ~~60%~~ + magenta ~~28%~~

Cyan - cyan 97% ~~67%~~ + magenta ~~69%~~

Blue - cyan 91% ~~35%~~ + yellow ~~56%~~

Magenta + Cyan 6% ~~48%~~ + yellow ~~20%~~

Black + or - optional

For the image viewed through green-blue gel.

Red - magenta 93% ~~44%~~ + cyan ~~57%~~
- yellow ~~30%~~

Yellow nil treatment + cyan 20 + magenta 3%

Green + magenta 4% - cyan ~~60%~~ + magenta ~~28%~~

Cyan + magenta 7% ~~69%~~ - cyan ~~67%~~

Blue + yellow 50% ~~56%~~ - cyan ~~35%~~

Magenta nil treatment + Cyan ~~48%~~ + yellow ~~20%~~

Black + or - optional



M. Dawson

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